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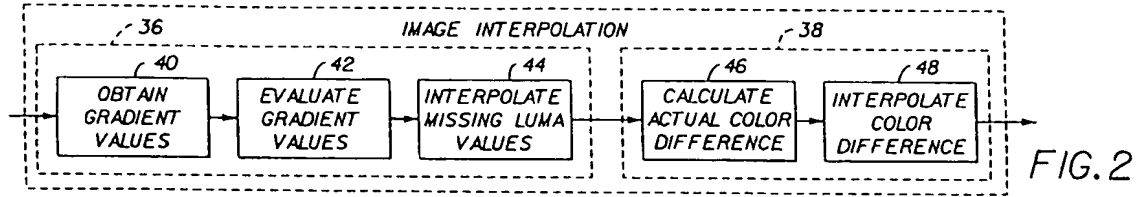
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54 Apparatus and method for adaptively interpolating a full color image utilizing luminance gradients.

⑤7 Adaptive interpolation is performed by apparatus operating upon a digitized image signal obtained from an image sensor having color photosites that generate a plurality of color values, but only one color per photosite. A digital processor obtains gradient values from the differences between luminance values in vertical and horizontal image directions.

The gradient values are compared to a programmable threshold in order to select one of the directions as the preferred orientation for the interpolation of additional luminance values. The interpolation is then performed upon values selected to agree with the preferred orientation.







European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 94 10 9928

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	WO-A-91 05440 (EASTMAN KODAK COMPAGNY) * page 3, line 2 - line 34 * ---	1, 4, 6, 7	H04N9/04
A	EP-A-0 199 129 (HITACHI LTD) * page 7, line 3 - page 8, line 21 * ---	1, 4-7	
D, A	WO-A-86 01966 (EASTMAN KODAK COMPAGNY) * page 3, line 8 - line 21 * -----	1, 6, 7	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H04N
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28 November 1994	Examiner Bequet, T
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	